

Abstract

An apparatus is disclosed for supplying input signals to a computer. A
5 sensor having the form of a sphere has a touch sensitive surface for
generating position data for touch events. The sensor includes orientation
sensors that determine rotation with respect to the earth's magnetic and
gravitational fields. Orientation data may be combined with position data to
10 interpret the orientation of touch events on the surface with respect to the
computer's display. Cursor movement or text may be generated from touch
events. Preferably the sphere has a roughened surface that generates sound
when touched. Position data is generated by processing signals from
microphones under the sphere's surface.

15 *(Figure 1)*

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